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TEST METHODS TO CHARACTERIZE THE MECHANICAL PROPERTIES OF THE INTERPHASE

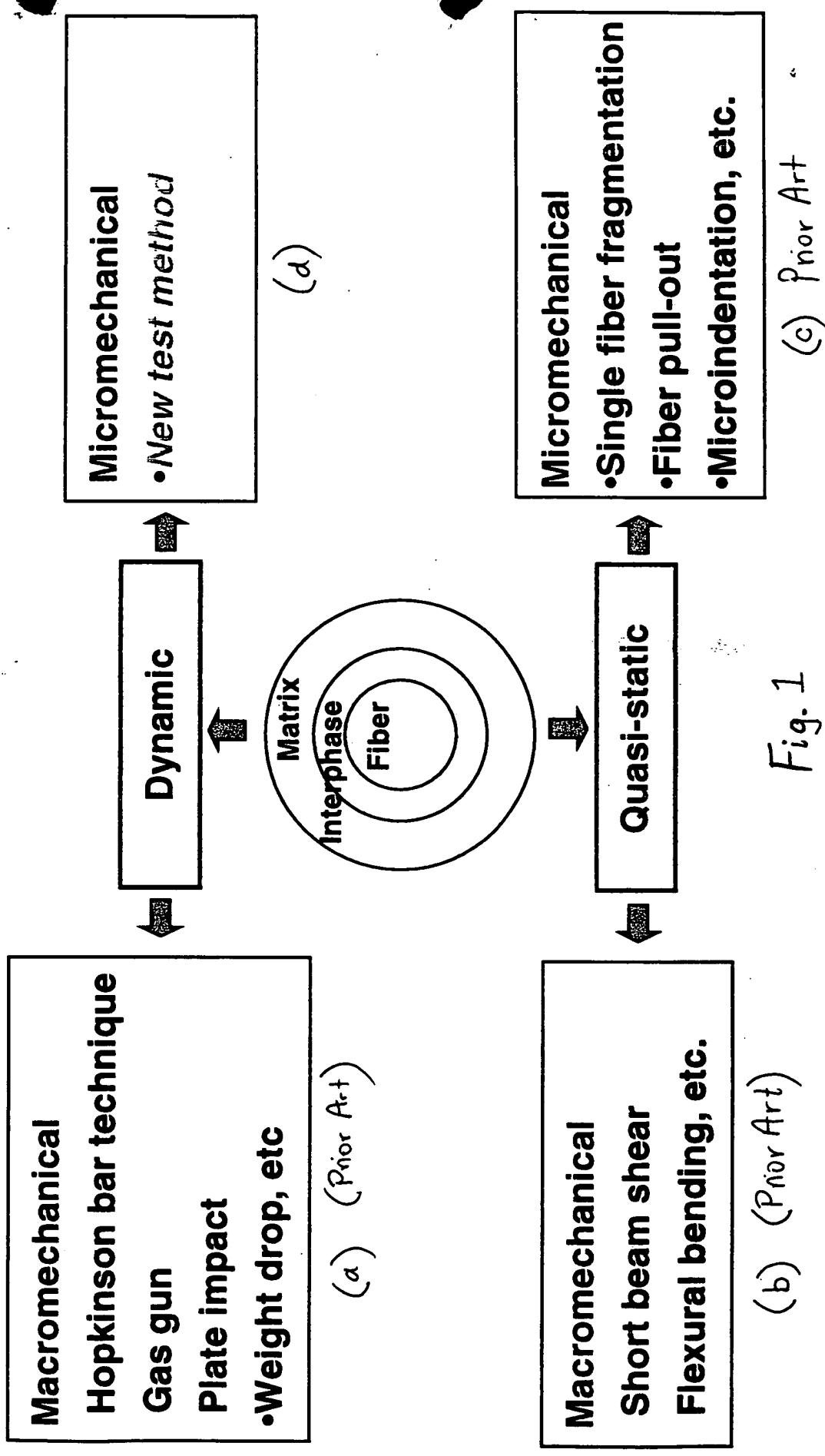


Fig. 1
(b) (Prior Art)
(a) (Prior Art)
(c) Prior Art
(d) (New test method)

SCHEMATIC OF THE DYNAMIC INTERPHASE - LOADING APPARATUS (DILA)

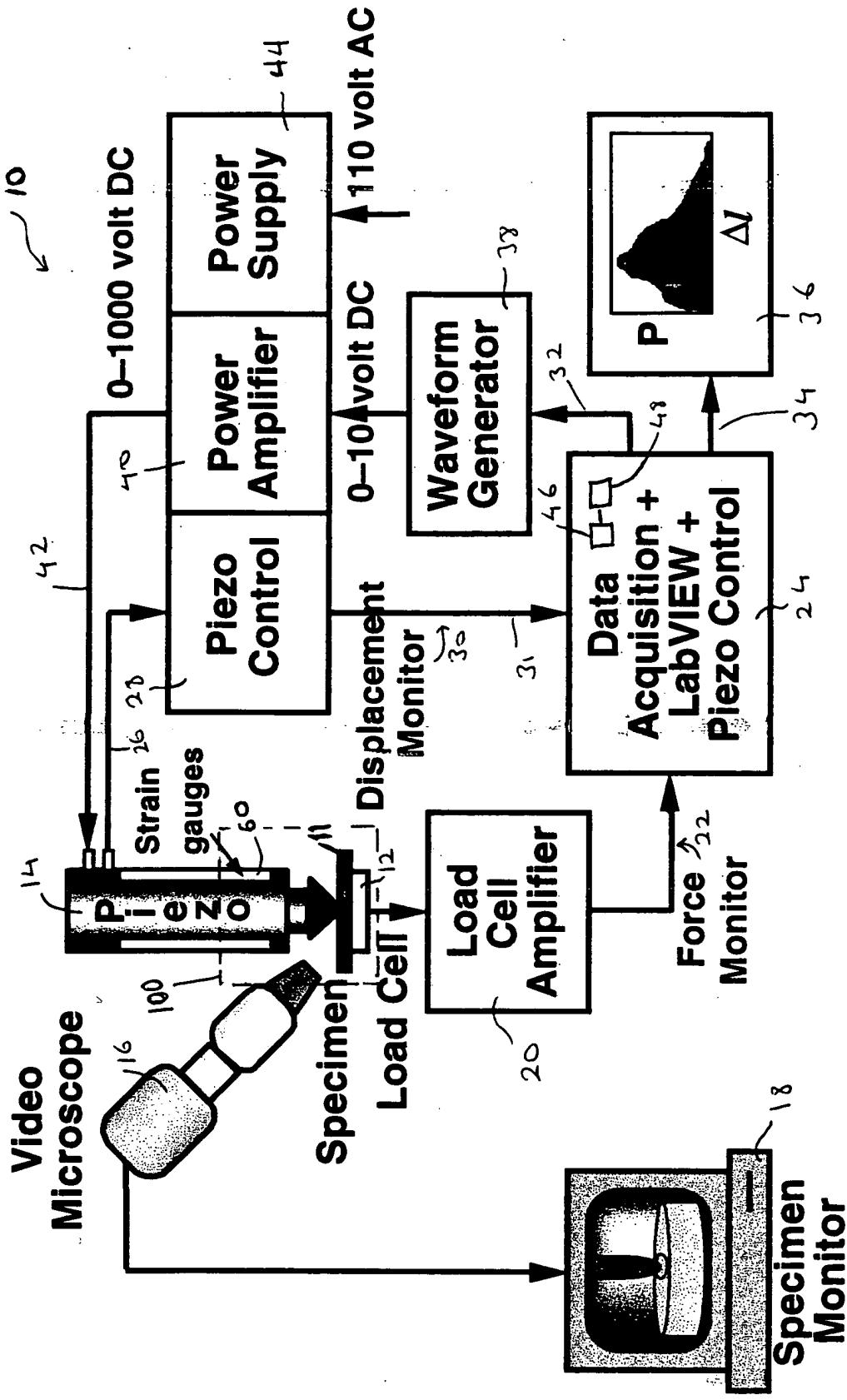


Fig. 2

FORCE - DISPLACEMENT RESPONSE OF THE FIBER/MATRIX INTERPHASE

Material : Glass-Fiber / Epoxy-Amine Composite Interphase

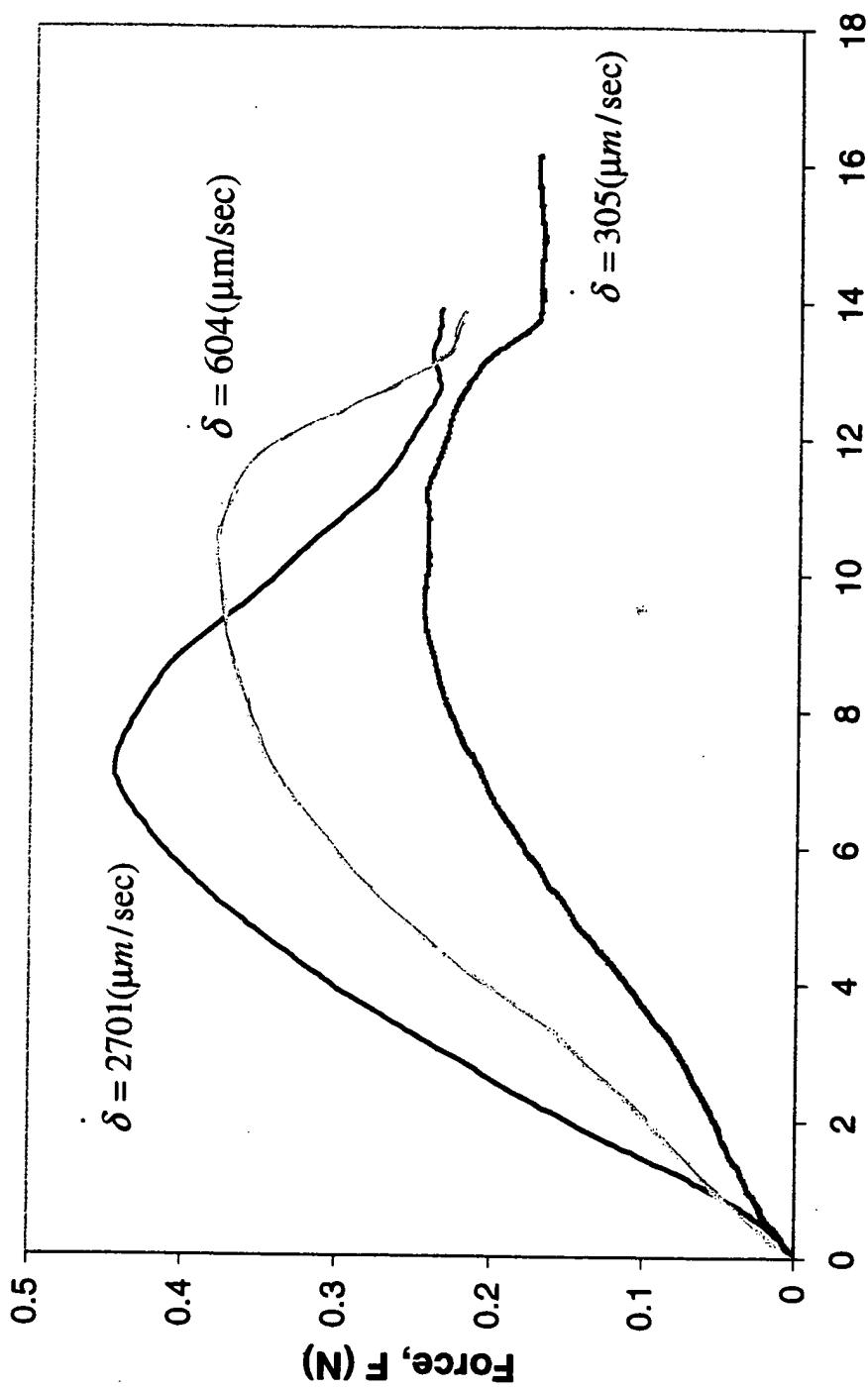


Fig. 3

FORCE RESPONSE OF THE FIBER/MATRIX INTERPHASE AS A FUNCTION OF TIME

Material : Glass-Fiber / Epoxy-Amine Composite Interphase

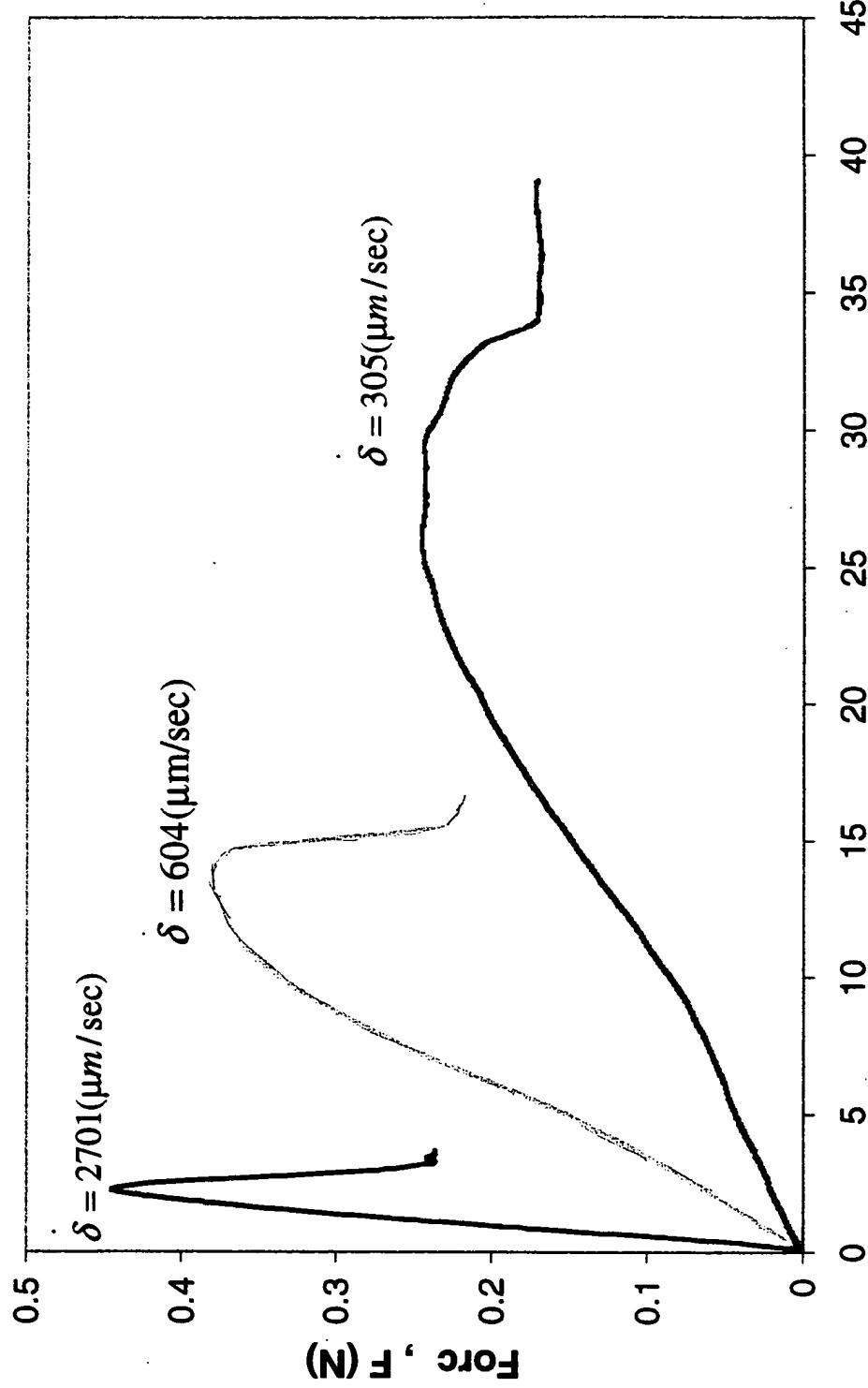


Fig. 4

DISPLACEMENT OF THE FIBER AS A FUNCTION OF TIME

Material : Glass-Fiber / Epoxy-Amine Composite Interphase

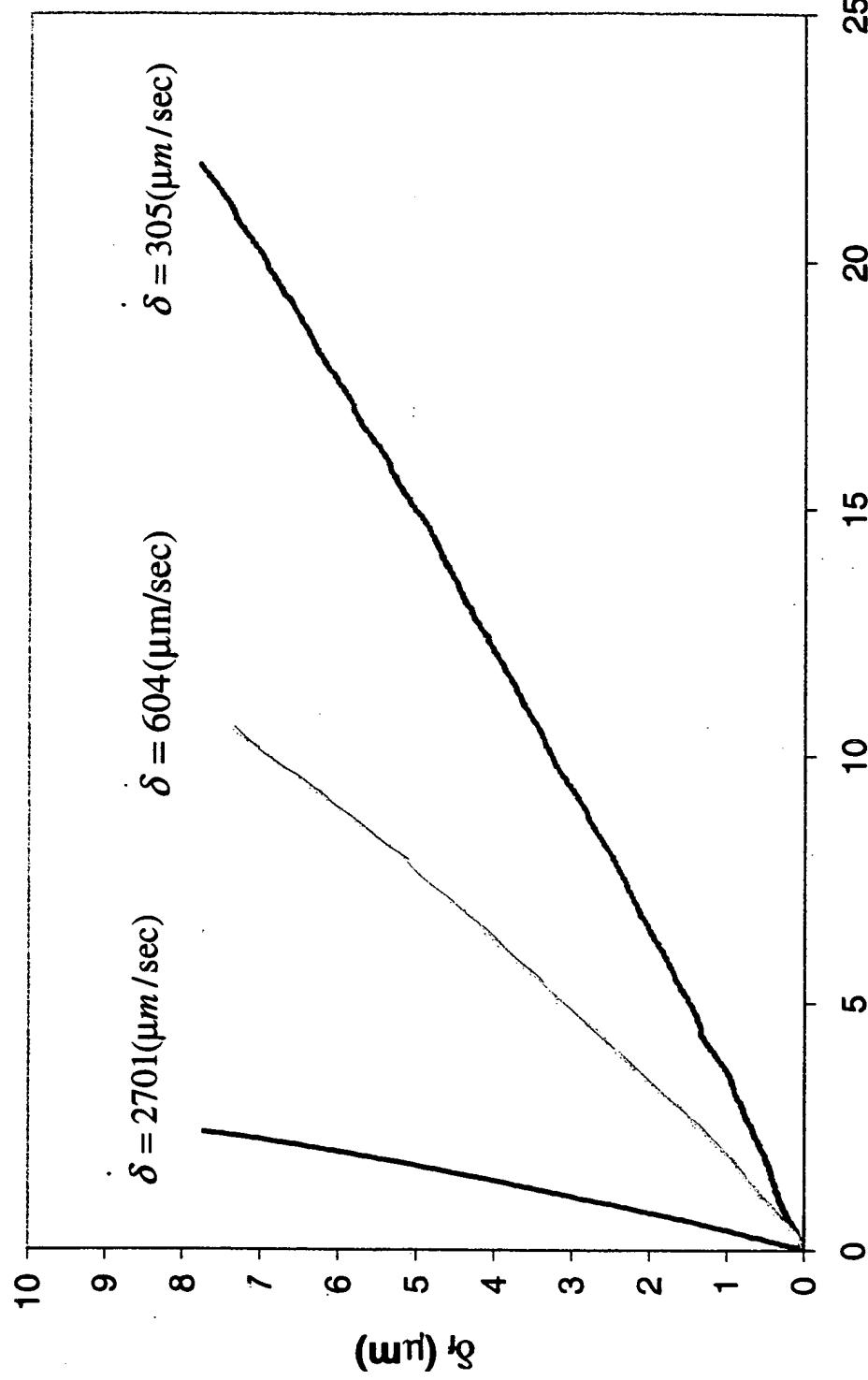


Fig. 5

DISPLACEMENT RESPONSE OF PIEZOELECTRIC ACTUATOR

$$t = RC \ln \left[1 - \frac{U_e(t)}{U_o} \right]$$

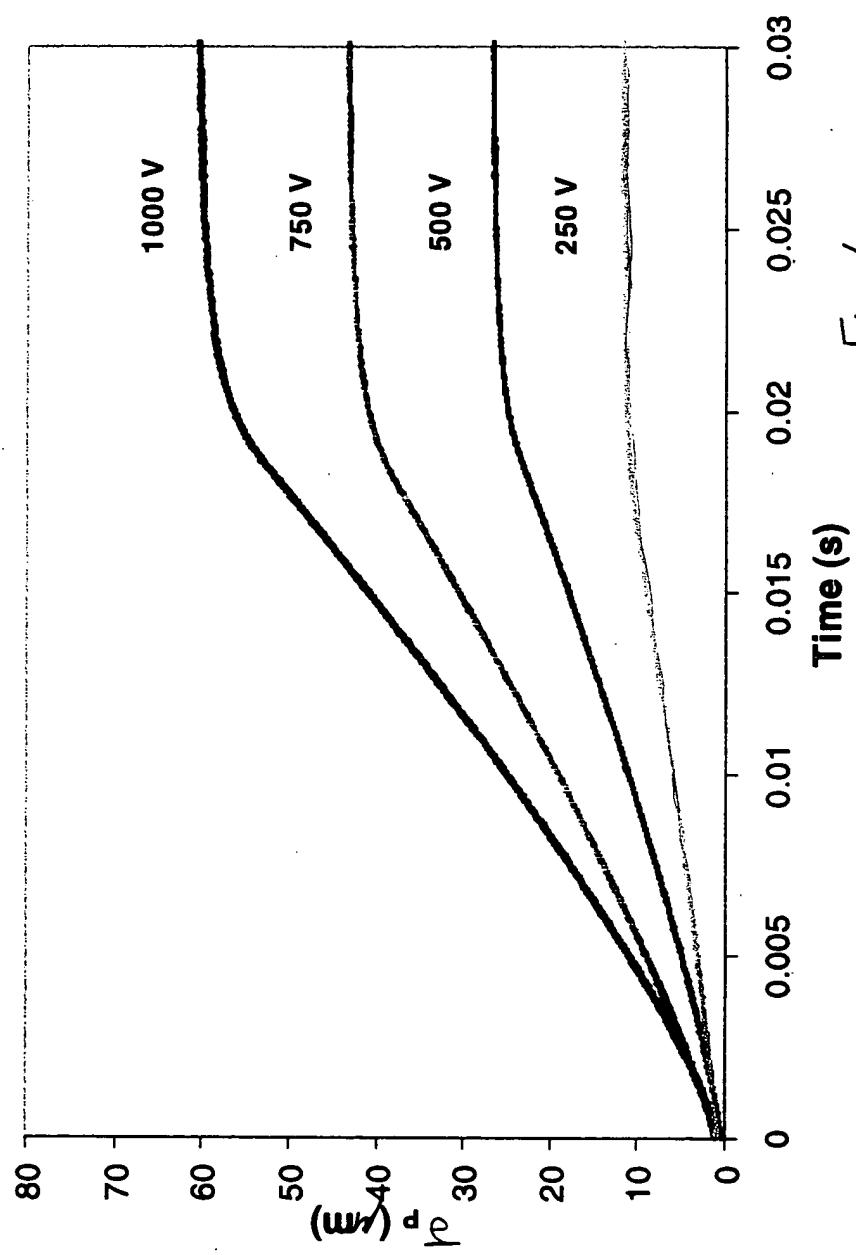


Fig. 6

TEST CONFIGURATION AND MICRO - DEBONDING PROCESS

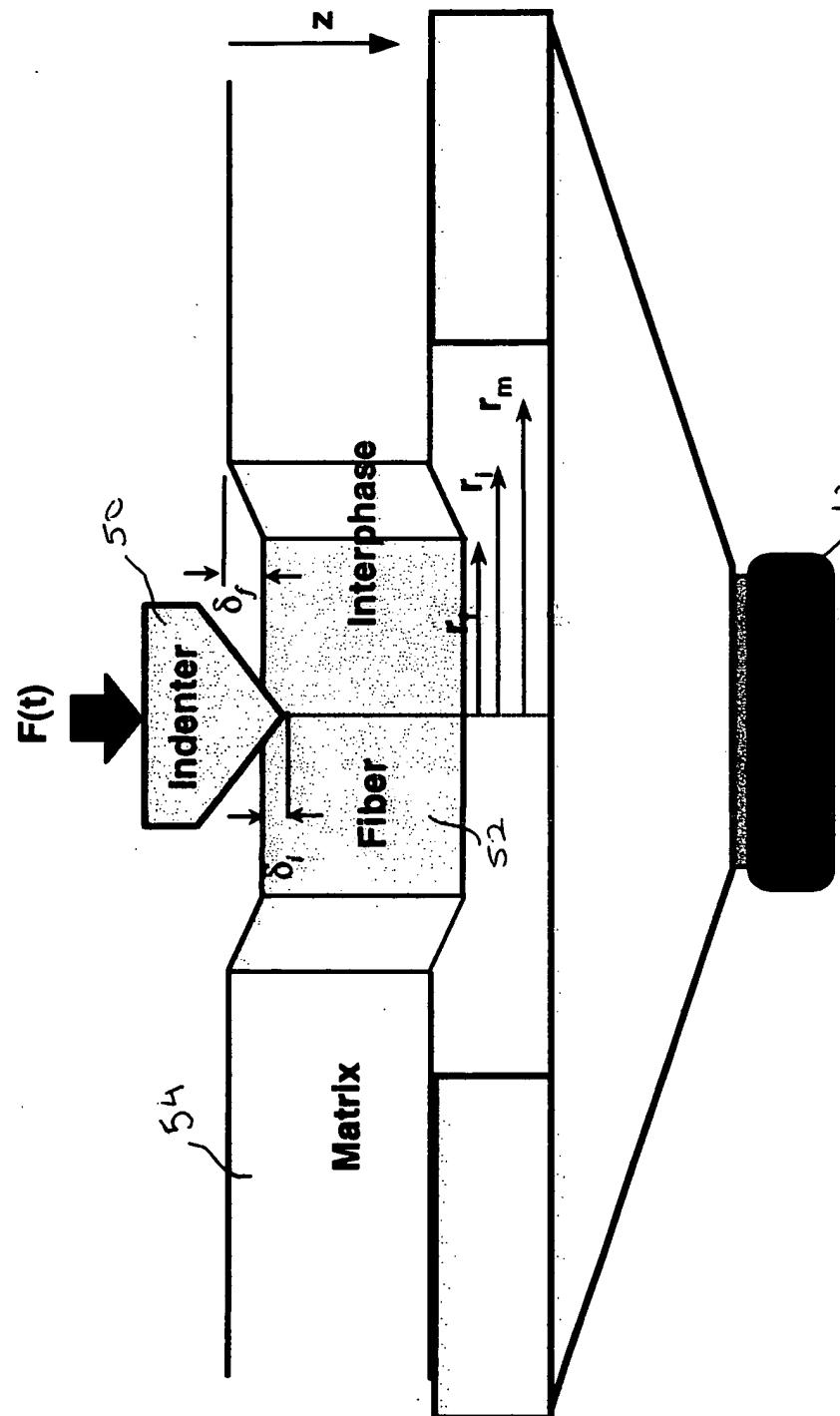


Fig. 7